



ARGONNE
NATIONAL LABORATORY



United States
Department of Energy

The University of Chicago

ENTRANCE

Update on IT Issues

Kenneth Sidorowicz

February 25, 2004

Argonne National Laboratory



*A U.S. Department of Energy
Office of Science Laboratory
Operated by The University of Chicago*



APS Linux Support

- **Red Hat Enterprise Linux for Workstations (Recommended)**
 - 512 MB Memory Minimum
- **Red Hat Advanced Server for Systems with More than Two Processors (Recommended)**
- **APS is Continuing to Support Red Hat Linux 9.0**
 - Red Hat is dropping Support April 30, 2004
 - No Additional Security Patches From Red Hat after April
- **Fedora in Specific Instances**
- **Hardware Supported**
 - APS standard Hewlett Packard PC's from Stock Room
 - Selected Higher Performance Hewlett Packard PC's
 - Dell Latitude Notebooks
- **Update Proxy Server to be Installed (Patch Server)**

Wireless (1)

- **Current Wireless Installation**
 - Wireless Connection is open. No encryption
 - Wireless is outside of Firewall
 - VPN must be used to Access APS Networks
 - 802.11b (11 Mbps)
 - CLO
 - Experiment Hall
 - Auditorium
 - LOM's

Wireless (2)

- **New Wireless Installation**
 - 802.11g (54 and 11Mbps) Upgrade
 - 11 Mbps Clients Degrade Performance
 - Additional Access Points in Experiment Hall
 - EAA
 - RF Building 420
 - Linac Building 411 and 412
 - LEUTL
 - Argonne Guest House

Cyber security (1)

- **Access Control List on LOM Routers**
- **Firewalls Scans Email for Viruses**
- **Any Opening in Firewall Requires CS-ARG Registration per DOE and ANL Policies and Procedures.**
- **DOE Directives Concerning Information Technology and Security Web Link**
 - http://inside.anl.gov/safetysecurity/cybersecurity/doe_directives.html
- **Argonne Cyber Security Page Link is**
 - <http://www.inside.anl.gov/safetysecurity/cybersecurity/index.html>
- **VPN - APS and CATS**
 - For Offsite Access from Home and Laptops
 - Requires APS Domain Account

Cyber security (2)

- **Spam Assassins on APS Firewall (2/12/04)**
 - Processed 9952 messages
 - Detected 2169 messages as Spam
 - Firewall found 17 messages with viruses
- **Spam Assassin on CAT Firewall (2/12/04)**
 - Processed 3533 messages
 - Spam Assassin detected 766 messages as spam
 - Firewall found 113 messages with viruses

New Initiatives

- **Next Generation Firewalls to Improve Network Performance and add High-Availability to Minimize Potential for Single Point of Failure.**
- **New Intrusion Detection hardware to accurately identify and classify known and unknown threats targeting the network, including worms, denial-of-service (DoS), and application attacks. Automatically adds blocks to new Firewall.**
- **New Citrix Metaframe Servers accessible via Web or existing Metaframe client software. Provides access to administrative application for Unix, Mac, and Windows PC's.**
 - Internal URL: <http://metis.aps.anl.gov>
 - External URL: <https://metis.aps.anl.gov>